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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/631,470	04/12/1996	STALEY BROD	D5716CIP2 5157 EXAMINER	
27851 75	590 02/02/2004			
BENJAMIN A	A. ADLER		SAYALA, C	ННАҮА D
8011 CANDLE HOUSTON, T			ART UNIT PAPER NUMBER 1761	
HOUSTON, I	X //0/1			

DATE MAILED: 02/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application N	lo.	Applicant(s)	
	08/631,470		BROD, STALEY	
Office Action Summary	Examiner		Art Unit	
	C. SAYALA		1761	
The MAILING DATE of this communication app Period for Reply	ears on the co	ver sheet with the c	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, hy within the statutory will apply and will exp., cause the application	owever, may a reply be tim minimum of thirty (30) day: bire SIX (6) MONTHS from on to become ABANDONEI	nely filed s will be considered timel the mailing date of this co D (35 U.S.C. § 133).	y. ommunication.
1) Responsive to communication(s) filed on 03 No.	ovember 2003			
2a)⊠ This action is FINAL . 2b)☐ This	action is non-f	inal.		
3) Since this application is in condition for allowar closed in accordance with the practice under E				e merits is
Disposition of Claims				
4) ☐ Claim(s) 1-3,5-10,12-15 and 19 is/are pending 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3, 5-10, 12-15 and 19 is/are rejecte 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consic	leration.		
Application Papers	·			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) () drawing(s) be he drawing(s) be he dion is required it	eld in abeyance. Seef the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 Cl	
Priority under 35 U.S.C. §§ 119 and 120		;		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domesti since a specific reference was included in the first 37 CFR 1.78. a) The translation of the foreign language process.	s have been rest have been rest to the certified comments of the certified comments at sentence of the comments of the certified comments that is applicated to the certified comments applicated the certified comments applied the certified that is a possible to the certified that is	eceived. eceived in Applicati have been received 7.2(a)). copies not received r 35 U.S.C. § 119(e) the specification or eation has been received r 35 U.S.C. §§ 120	on No ed in this National ed. e) (to a provisional in an Application ceived. and/or 121 since	al application) Data Sheet a specific
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5)	Interview Summary Notice of Informal P Other:	(PTO-413) Paper No(Patent Application (PTO	

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DETAILED ACTION

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-3, 6-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Sobel (US Patent 5780021, which is an equivalent of WO 94/02154).

Sobel teaches the oral administration (col. 13, line 10+) of a Type I interferon for auto-immune diseases, including diabetes, listed at col 1 and col. 2, lines 5-30 in the same doses claimed herein, at col. 4, lines 10-25. The species to be treated are listed at col. 4 and col. Col. 11, lines 35+. Note that at col. 10, the patentee notes that the treatment reduces inflammatory response, which would in turn reduce the levels of inflammatory cytokines, and at col. 11, line 20, that it inhibits recurrent diabetes.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 5-10, 12-15 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sobel and Cummins, Jr.

Sobel teaches all of the limitations of the claims listed and discussed in paragraph 2 above. The patentee does not teach alternate day dosing and does not teach MS in particular, although he does teach the therapy for auto-immune diseases and it is well known that MS is an auto-immune disease. See references listed in PTO-form 892, which shows state of the art and what is well known. Cummins also teaches all of the limitations of the claims, including using alpha interferon for MS, except the amount claimed and alternate day dosing. However, he does show that a daily dosage is possible, as a single dosage or as divided, and administered in a multiple daily dose regimen. The reference also teaches a staggered regimen of 1-3 days per week or month as an alternative to daily dosing. See col. 5, lines 50-55. With such a flexibility as taught by the reference, and since it is common knowledge in the art to employ such a regimen instead of continuous dosing, for a variety of reasons such as, toxicity, the condition of the patient, patient reaction and amelioration of the disease condition, etc.,

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it would have been obvious to one of ordinary skill in the art to adopt an alternate day dosing and administer IFN as shown by Cummins for MS. It is worthwhile to note that even though Sobel teaches the same amounts as claimed, patentee states that the precise amount will depend on the judgement of the attending physician based on considerations of age, weight and condition of the patient.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Response to Amendment

Applicant's arguments filed 11/03/03 have been fully considered but they are not persuasive.

Although applicant admits in his response at page 16, that Sobel teaches administering an effective amount of Type I interferon to a mammal to prevent or treat autoimmune disorders, he also argues that patentee's statements are not adequately enabled and that patentee's statements are "generalized". He states that Sobel only teaches that the incidence of diabetes is reduced and the onset of diabetes is delayed. In fact, the claims are to "treating" diabetes, in Sobel. Discussions of enablement in an issued patent and discussions pertaining to "ingestion upon oral administration" have been adequately discussed in the decision of the Board of Patent Appeals and Interferences and applicant is respectfully referred to those parts of that decision which refer to and address such arguments by applicant. The references teach administering the same compound to treat the same condition, "auto-immune diseases", in the same

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way, "oral administration". To distinguish the instant claims from prior art for patentability, based on the limitation "such that the type one interferon is ingested upon oral administration", is unconvincing and unpersuasive, particularly when the BPA&I decision establishes that no special meaning for the word "ingest" has been attributed by the specification. As for Sobel not teaching multiple sclerosis, the rejection is under 35 USC 103 and it is noted that it is well known that the terms "auto-immune" disease include multiple sclerosis, as discussed in Cummins, Jr., and applied in paragraph 4, above. Cummins teaches administering, orally, the same interferon for MS. It would be reasonable to expect the person of ordinary skill in the art to follow the guidelines of Sobel for dosing.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. SAYALA at Group 1761, telephone number (703) 308-3035.

The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is 703-308-0661.

C. ŠAYALA Primary Examinei

Group 1700.